WHAT IS CLAIMED IS:

1	1. A device for intracorporeal use within a patient's body, comprising:		
2	an implantable scaffold;		
3	at least one source of at least one therapeutic capable agent associated with the		
4	scaffold and configured to release the therapeutic capable agent within the patient's body at a		
5	controlled rate; and		
6	a rate-controlling element layer covering at least a portion of the source and		
7	including at least one therapeutic capable agent and providing for an initial relatively more		
8	rapid release of the at least one therapeutic capable agent therapeutic from the rate-controlling		
9	element layer as well as a sustained, controlled release of the at least one therapeutic capable		
0.	agent from the source.		
1	2. A device for intracorporeal use within a patient's body, comprising:		
2	an implantable scaffold;		
3	at least one source of at least one therapeutic capable agent associated with the		
4	scaffold; and		
5	a rate-controlling element disposed adjacent at least a portion of the source		
6	and being configured to control the release of the therapeutic capable agent in the patient's		
7	body at an initial rate and at a subsequent rate relatively slower than the initial rate.		
1	3. A device as in Claim 1 or 2 wherein the rate-controlling element		
2	covers the source.		
1	4. A device as in Claim 1 or 2 wherein the rate-controlling element		
2	covers only a portion of the source.		
1	5. A device as in Claim 1 or 2 wherein the source comprises a reservoir.		
1	6. A device as in Claim 5 wherein the reservoir is at least partially		
2	disposed over the expandable structure.		
1	7. A device as in Claim 1 or 2 wherein the scaffold comprises a tissue		
2	facing and a luminal facing surface.		
1	8. A device as in Claim 7 wherein the reservoir is disposed adjacent the		
2	luminal facing surface.		

1	9. A device as in Claim / wherein the reservoir is disposed adjacent the
2	tissue facing surface.
1	10. A device for intracorporeal use within a patient's body, comprising:
2	a radially expansible implantable scaffold having a plurality of regions
3	exhibiting different mechanical profiles during the expansion of the scaffold and including
4	relatively lower and relatively higher mechanical profiles; and
5	a source of at least one therapeutic capable agent comprising a plurality of
6	segments and disposed adjacent at least a portion of the scaffold.
1	11. A device as in Claim 10 wherein the segments are disposed adjacent
2	the relatively lower mechanical profile regions.
1	12. A device as in Claim 10 wherein the segments are disposed adjacent
2	the relatively higher mechanical profile regions.
1	13. A device as in Claim 10 wherein the segments are disposed adjacent
2	only the regions that do not undergo substantial bending, flexing, stretching, or compressing
- 3 .	upon the expansion of the scaffold.
1	14. A device as in Claim 10 wherein the segments are disposed adjacent
1	only the regions that do not undergo more than about 5% of bending, flexing, stretching, or
2	compressing upon the expansion of the scaffold.
3	compressing upon the expansion of the searrord.
1	15. A device as in Claim 10 wherein the segments are disposed adjacent
2	only the regions that undergo substantial bending, flexing, stretching, compressing upon the
3	expansion of the scaffold.
1	16. A device as in Claim 10 wherein the areas exhibiting relatively higher
2	mechanical profile are configured to be in a direct flow of body fluids flowing through the
3	intracorporeal body.
1	17. A device as in Claim 10, 13, or 16 further comprising a rate-controlling
2	element disposed adjacent the scaffold.
1	18. A device as in Claim 17 wherein the rate-controlling element is
2	disposed adjacent at least a portion of the source

1		19.	A device as in Claim 17 wherein the rate-controlling element is formed
2	from a nonpo	rous m	aterial.
1		20.	A device as in Claim 18 wherein the rate-controlling element has a
2	variable thick		
_	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
1		21.	A device as in Claim 20 wherein the rate-controlling element has a
2	greater thickr	ness adj	acent scaffold regions having relatively higher mechanical profile.
1		22.	A device for intracorporeal use within a patient's body, comprising:
2		an im	plantable scaffold;
3		at lea	st one source of at least one therapeutic capable agent associated with at
4	least a portion	n of the	e scaffold and configured to release the therapeutic capable agent within
5	the patient's		
6	1	•	e-controlling element disposed adjacent at least a portion of the source
7	and including		st one disruption sufficiently large to permit material transport to or from
8	the source.		•
•			
1		23.	A device as in Claim 22 wherein the at least one disruption is an
2	aperture.		
1		24.	A device as in Claim 22 or 23 wherein the at least one disruption is
2	preformed.		
_	proformed.		
1		25.	A device as in Claim 22 or 23 wherein the at least one disruption is
2	formed in the	e patien	ıt's body.
		26	A 1
1		26.	A device as in Claim 22 or 23 wherein the transport comprises at least
2	_	ort of r	native fluids to the source or of the therapeutic capable agent from the
3	source.		
1		27.	A device for intracorporeal use within a patient's body, comprising:
2		an in	nplantable scaffold;
3		at lea	ast one source of at least one therapeutic capable agent associated with at
4	least a portio	n of th	e scaffold and configured to release the therapeutic capable agent within
5	the patient's	body: a	and

6	a rate-controlling element disposed adjacent at least a portion of the source		
7	and being configured to mechanically change upon application of mechanical stress or strain.		
1	28. A device for intracorporeal use within a patient's body, comprising:		
2	an implantable scaffold;		
3	at least one source of at least one therapeutic capable agent associated with at		
4	least a portion of the scaffold and configured to release the therapeutic capable agent within		
5	the patient's body; and		
6	a rate-controlling element disposed adjacent at least a portion of the source		
7	and which undergoes a mechanical change upon being implanted in the patient's body.		
1	29. A device as in Claim 27 or 28 wherein the mechanical change is one o		
2	mechanical fracture.		
1	30. A device as in Claim 27 or 28 wherein the mechanical change is one o		
2	change in surface characteristic.		
	of the control of the		
1	31. A device as in Claim 27 or 28 wherein the mechanical change is one of		
2	change in porosity.		
1	32. A device as in Claim 27 wherein the mechanical stress or strain is		
2	applied upon the bending of the scaffold.		
1	33. A device as in Claim 27 wherein the mechanical stress or strain is		
2	applied upon the expansion of the scaffold.		
1	34. A device for intracorporeal use within a patient's body, comprising:		
2	an implantable scaffold;		
3	at least one source of at least one therapeutic capable agent associated with at		
4	least a portion of the scaffold and configured to release the therapeutic capable agent within		
5	the patient's body; and		
6	a swellable rate-controlling element disposed adjacent at least a portion of the		
7	source.		
1	35. A device as in Claim 34 wherein the rate-controlling element swells		
2	upon exposure to the intracorporeal environment.		

A device as in Claim 35 wherein the rate-controlling element is 1 36. configured to release the therapeutic capable agent from the source. 2 A device as in any one of Claims 1, 10, 22, or 27 wherein the device 37. 1 2 comprises a stent. A device as in Claim 37 wherein the stent comprises metallic material. 1 38. A device as in Claim 37 wherein the stent comprises polymeric 39. 1 2 material. A device as in Claim 39 wherein the stent comprises a degradable 40. 1 2 material. A device as in Claim 39 wherein the stent comprises a non-degradable 1 41. 2 material. A device as in Claim 37 wherein the device is balloon-expandable. 42. 1 A device as in Claim 37 wherein the device is self-expandable. 1 43. A device as in Claim 37 wherein the source comprises a matrix. 44. 1 A device as in Claim 44 wherein the matrix includes a matrix material. 45. 1 A device as in any one of Claims 1, 10, 22, 27, or 37 wherein the rate-46. 1 controlling element is formed from a nonporous material. 2 A device as in Claim 46 wherein the porosity of the rate-controlling 47. 1 element changes upon implanting in the patient's body. 2 A device as in Claim 1, 10, 22, 27, or 37 wherein the rate-controlling 48. 1 2 element is formed from a porous material. A device as in Claim 46 or 47 wherein the rate-controlling element 49. 1 2 comprises a parylene polymer or copolymer. A device as in Claim 48 wherein the parylene comprises parylene C. 1 50.

1	51. A device as in Claim 46 wherein the rate-controlling element becomes
2	at least partially porous upon expansion of the scaffold.
1	52. A device as in Claim 46 or 48 wherein a rate of release of the
	therapeutic capable agent from the device in an unexpanded state in the patient's body is
2	
3	different than that in an expanded state.
1	53. A luminal prosthesis comprising:
2	a scaffold which is implantable within a body lumen;
3	a substance-containing reservoir positioned over at least a portion of a surface
4	of the scaffold; and
5	a rate-controlling element layer covering at least a portion of the substance-
6	containing reservoir, the rate-controlling element layer having the substance dispersed therein
7	and providing for an initial rapid release of the substance from the rate-controlling element
8	layer as well as a sustained, controlled release of the substance from the reservoir.
1	54. A luminal prosthesis comprising:
2	a scaffold which is implantable in a body lumen, said scaffold being radially
3	expansible and having regions which undergo greater and lesser mechanical stress or strain
4	during radial expansion; and
5	a substance-containing reservoir or layer comprising individual portions which
6	are preferentially positioned over the regions which undergo lesser stress or strain.
1	55. A luminal prosthesis as in Claim 54, wherein the substance-containing
2	layer is positioned only on those portions of the scaffold that do not substantially bend,
3	stretch, or compress when the scaffold is expanded.
5	stroton, of complete when the property of
1	56. A luminal prosthesis as in Claim 54, further comprising a rate-
2	controlling element layer formed over at least a portion of the scaffold.
1	57. A luminal prosthesis as in Claim 56, wherein the rate-controlling
1	
2	element layer is thicker over regions of greater mechanical profile.
1	58. A luminal prosthesis comprising:
2	a scaffold which is implantable within a body lumen;

3	a substance-containing reservoir positioned over at least a portion of a surface
4	of the scaffold; and
5	a rate-controlling element layer covering at least a portion of the substance-
6	containing reservoir, the rate-controlling element layer having at least one preformed aperture
7	which is sufficiently large to permit the transport of body fluids to the substance-containing
8	reservoir and/or the release of substance from the reservoir.
1	59. A luminal prosthesis comprising:
2	a scaffold which is implantable within a body lumen;
3	a substance-containing reservoir positioned over at least a portion of a surface
4	of the scaffold, and
5	a rate-controlling element layer covering at least a portion of the substance
6	containing reservoir, the rate-controlling element layer being configured to fracture when
7 ,	stressed by substantially bending, expanding, stretching, or compressing of the scaffold.
1	60. A luminal prosthesis comprising:
2	a scaffold which is implantable within a body lumen;
3	a substance-containing reservoir positioned over at least a portion of a surface
4	of the scaffold; and
5	a rate-controlling element layer covering at least a portion of the substance
6	containing reservoir, the rate-controlling element layer being configured to swell to permit
7	release of substance from the reservoir when exposed to a luminal environment.
1	61. A luminal prosthesis comprising:
2	a scaffold which is implantable within a body lumen;
3	a substance-containing reservoir positioned over at least a portion of a surface
4	of the scaffold; and
5	a rate-controlling element positioned over at least a portion of the surface of
6	the scaffold and covering less than all of the substance containing reservoir.
1	62. A luminal prosthesis as in any of Claims 53 through 61, wherein the
2	luminal prosthesis comprises a metal stent.
1	63. A luminal prosthesis as in Claim 62, wherein the metal stent is balloon
1	evnandable

parylene C.

1	64.	A luminal prosthesis as in Claim 62, wherein the metal stent is self-
2	expanding.	
1 2 3	65. substance-containir a matrix material.	A luminal prosthesis as in any of Claims 53 through 61 wherein the ag reservoir comprises a matrix layer including the substance dispersed in
1 2	66. matrix material hav	A luminal prosthesis as in Claim 65, wherein the substance and the re been vapor deposited on the scaffold.
1 2	67. substance-containing	A luminal prosthesis as in any of Claim 53 through 61, wherein the ng layer consists essentially of a homogeneous layer of the substance.
1 2	68. vapor deposited on	A luminal prosthesis as in Claim 67, wherein the substance has been the scaffold.
1 2 3		A luminal prosthesis as in any of Claims 53 through 61, wherein the structural elements having rectangular cross-sections defining four s, wherein the drug is positioned on fewer than all of the surfaces.
1 2	70.	A luminal prosthesis as in any of Claims 53 through 61, wherein the ment is porous.
1 2	71.	A luminal prosthesis as in any of Claim 53 through 61, wherein the ment is nonporous.
1 2 3	72. comprising a base substance-containing	A luminal prosthesis as in any of Claims 53 through 61 further layer over at least a portion of the scaffold and at least a portion of the ng layer.
1 2	73. rate-controlling ele	A luminal prosthesis as in any of Claims 53 through 61, wherein the ement layer comprises a parylene polymer or copolymer.
1 2	74. vapor deposited ov	A luminal prosthesis as in Claim 73, wherein the parylene has been eer the scaffold or a portion thereof.
1	75	A luminal prosthesis as in Claim 73, wherein the parylene comprises

1		76.	A luminal prostnesis as in Claim 73, wherein the parylene is
2	nonporous.		
1		77.	A device for intracorporeal use within a patient's body, comprising:
2			plantable scaffold;
3			st one source of at least one therapeutic capable agent having a degree of
4	crystallinity l	ess thar	about 90 % and associated with the scaffold and configured to release
5	the therapeuti	_	ole agent within the patient's body; and
6		a rate	-controlling element disposed adjacent at least a portion of the source
7	and being cor	ifigured	to control the release of the therapeutic capable agent to the patient's
8	body.		
1		78.	A device as in Claim 77 wherein the therapeutic capable agent has a
2	degree of cry	stallinit	y less than about 50 %.
1		79.	A device for intracorporeal use within a patient's body, comprising:
2		an im	plantable scaffold;
3		at lea	st one source of at least one therapeutic capable agent associated with the
4	scaffold and	configu	red to release the therapeutic capable agent at a targeted tissue site within
5	the patient's	body; a	nd
6		a rate	-controlling element disposed adjacent at least a portion of the source
7	and being co	nfigure	d to effectuate a therapeutic capable agent flux density of about 1.71x10-
8	14 ug/(cm ² s)	to abou	at $1.71 \times 10-8 \text{ ug/(cm}^2 \text{s})$.
1		80.	A device for as in Claim 79 wherein the flux density ranges from about
2	1.71x10-14 u	ıg/(cm²	s) to about $3.43 \times 10^{-9} \text{ ug/(cm}^2 \text{s})$.
1		81.	A device for as in Claim 79 wherein the flux density ranges from about
2	8.57x10-12 u	ıg/(cm²	s) to about $3.43 \times 10^{-9} \text{ ug/(cm}^2 \text{s})$.
1		82.	A device for as in Claim 79 wherein the flux density ranges from about
2	1.71x10-11 u	ıg/(cm²	s) to about $1.03 \times 10^{-9} \text{ ug/(cm}^2 \text{s})$.
1		83.	A device for intracorporeal use within a patient's body, comprising:
2.		an in	aplantable scaffold;

3		at least	t one source of at least one therapeutic capable agent associated with the
4	scaffold and configured to release the therapeutic capable agent at a targeted tissue site within		
5	the patient's b		
6	viio panisiii s s	•	controlling element disposed adjacent at least a portion of the source
7	and being con		to control the release of the therapeutic capable agent in the patient's
8	body, the device having a residual stress in an unexpanded state less than about 10%.		
0	body, the devi	.00 11441	ng a residual stress in an anonparases come rese
1		84.	A device for as in Claim 83 wherein the residual stress is less than
2	about 5 %.		
_		0.5	A 1 · C · Cl · O2 — lawein the west-dwell strong in long them
1	4 40/	85.	A device for as in Claim 83 wherein the residual stress is less than
2	about 1%.		
1		86.	A device for as in Claim 83 wherein the residual stress is less than
2	about 0.5%.		
1		87.	A method for making a device for intracorporeal use, comprising:
2		provid	ling an implantable structure having a first residual stress and including
3		a scaff	fold; and
4		at leas	at one source of at least one therapeutic capable agent associated with the
5	scaffold and c	onfigur	red to release the therapeutic capable agent at a targeted tissue site within
6	the patient's b	ody;	
7		chang	ing the structure residual stress to a second residual stress;
8		dispos	sing a rate-controlling element adjacent at least a portion of the source
9	and being configured to control the release of the therapeutic capable agent in the patient's		
10	body.		
1		88.	A method as in Claim 87 wherein the changing step comprises
2	reducing the r	residual	stress.
1		89.	A method as in Claim 87 wherein the changing step comprises
2	exposing the		re to ultrasound energy for a period of time.
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1		90.	A method as in Claim 87 wherein the changing step comprises
2	exposing the	structur	e to vibrational energy for a period of time.

2

- A method as in Claim 87 wherein the changing step comprises heating 91. 1 the structure to a first temperature for a period of time. 2 A method as in Claim 91 wherein the first temperature is less than the 92. 1 melting point of the therapeutic capable agent. 2 A method as in Claim 91 wherein the first temperature is about the 93. 1 same as the melting point of the therapeutic capable agent. 2 A method as in Claim 91 wherein the at least one therapeutic capable 94. 1 agent comprises a plurality of therapeutic capable agents and the first temperature is about the 2 same as the melting point of the therapeutic capable agent with the lowest melting point. 3 A method as in Claim 91 wherein the first temperature is more than the 95. melting point of the therapeutic capable agent. 2 A method as in Claim 91 wherein the at least one therapeutic capable 96. 1 agent comprises a plurality of therapeutic capable agents and the first temperature is more 2 than the melting point of the therapeutic capable agent with the lowest melting point. 3 A method as in Claim 87, 88, 89, 90, 91, 92, 93, or 95 wherein the 97. 1 2 changing step is performed before the disposing step. A method as in Claim 87, 88, 89, 90, 91, 92, 93, or 95 wherein the 98. 1 changing step is performed after the disposing. 2 A method as in Claim 87 wherein the chaning step comprises heating 99. 1 the structure to a second temperature for a period of time and is performed after the disposing 2 3 step. A method as in Claim 99 wherein the heating of the structure to a 100. 1 second temperate is performed under vacuum. 2 A method as in Claim 99 wherein the heating of the structure to a 101. 1
 - 1 102. A method as in Claim 98 wherein the second temperature is less than 2 the glass transition temperature of the rate-controlling element.

second temperate is performed in the absence of oxygen.

	1	103. A method as in Claim 98 wherein the first temperature is about the
	2	glass transition temperature of the rate-controlling element.
	1	104. A method as in Claim 98 wherein the first temperature is more than th
	2	glass transition temperature of the rate-controlling element.
	1	105. A method as in Claim 87 wherein the changing step comprises the step
	2	of both Claims 91 and 99.
and a	1	106. A device for intracorporeal use within a patient's body, comprising:
22) 22) 23)	2	an implantable scaffold;
and the land than the line fail	3	at lease one source of at least one therapeutic capable agent associated with
al Man	4	the scaffold and configured to release the therapeutic capable agent within the patient's body
fluid un	5	and
4117	6	a rate-controlling element layer covering at least a portion of the source and
	7	being formed from a non-porous material.
	1	107. A device as in Claim 106, wherein the non-porous material comprises
	2	parylene.
	1	108. A device as in Claim 106, wherein the nonporous material becomes at
	2	least partially porous when exposed to conditions in the patient's body.
	1	109. A device as in claim 106, wherein the rate-controlling element
	2	becomes disrupted when exposed to conditions in the patient's body.
	1	110. A device as in Claim 106, wherein the rate-controlling element
	2	includes a therapeutic capable agent.
	-	morando a ancrapounto españo agona
	1	111. A device as in Claim 110, wherein the therapetuic capable agent in the
	2	rate controlling element is the same as the therapeutic capable agent in the source.
	1	112. A device as in claim 106, wherein the nonporous material is selected
	2	from the group consisting of plasma deposited polymers, sputtered materials, evaporated
	3	materials, electroplated metals, electroplated alloys, glow discharge coatings, polyethylenes,
	4	polyurethanes, silicone rubber, cellulose, and parylene.